



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 04092606 A

(43) Date of publication of application: 25.03.1992

(51) Int. Cl. A47C 1/025

(21) Application number: 02212577

(22) Date of filing: 09.08.1990

(71) Applicant: JOHNNAN SEISAKUSHO CO LTD

(72) Inventor: IMAI HIROSHI

## (54) RECLINING DEVICE FOR SEAT

## (57) Abstract:

**PURPOSE:** To prevent the operation from becoming heavy due to a weight load by providing a rotation lock member which is engaged to a planet gear and a double face width part formed in a fixed shaft and detains the planet gear so that it can revolve but cannot rotate, and also, providing a driving means for rotating an eccentric shaft.

**CONSTITUTION:** When an eccentric shaft 4 turns around the center line X-X of its shaft part 41 by driving of a driving device 11, a planet gear 7 tries to revolve, while rotating on inner teeth 6A of a sun gear 6 by turning around the X-X line of an eccentric cam part 42. However, the planet gear 7 is controlled so that it can revolve by a revolution lock member 8 and a double face width part 31 of a fixed shaft 3 but cannot rotate, therefore, while revolving on inner teeth 6A of the sun gear 6, the sun gear concerned 6 is turned around the X-X line. In this case, a hinge plate 2, that is, a back

rest turns centering around the center line X-X of the shaft part 41 of the eccentric shaft 4, and since such a motion as raises the whole back rest does not exist, it does not occur that the rotational operation of the eccentric shaft 4 becomes heavy.

COPYRIGHT: (C)1992,JPO&amp;Japio

